

7VM400AM-RZ

AMD Athlon™/Athlon™ XP/Duron™ Socket A Processor Motherboard

User's Manual

Rev. 1003

12ME-VM400AMRZ-1003

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Notice

Please do not remove any labels on motherboard, this may void the warranty of this motherboard.

Due to rapid change in technology, some of the specifications might be out of date before publication of this booklet.

The author assumes no responsibility for any errors or omissions that may appear in this document nor does the author make a commitment to update the information contained herein.

Declaration of Conformity

Product name:
Type:
and address:

G.B.T. Technology Trading GmbH
Ansdollinger Weg 4, 7r 20573 Hamburg, Germany

(description of the apparatus, system, installation to which it refers)

Mother Board

7VM400AM-RZ

(reference to the specification under which conformity is declared)

is in conformity with

in accordance with 89/322 EEC/EMC Directive

EN 55011

Limits and methods of measurement of radio disturbance characteristics of industrial, scientific and medical (ISM) High frequency equipment

EN 61000-3-2

Disturbance in supply systems caused by household appliances and similar electrical equipment "Voltage fluctuations"

EN 55013

Limits and methods of measurement of broadcast receivers and associated equipment

EN 55024

Information Technology equipment - Limits and methods of measurement

EN 55014-1

Limits and methods of measurement of household electrical appliances, household and similar electrical apparatus

EN 50035-1

Generic immunity standard Part 1: Residential, commercial and light industry

EN 55015

Limits and methods of measurement of radio disturbance characteristics of fluorescent lamps and ballasts

EN 55014-2

Immunity measurements for household appliances tools and similar apparatus

EN 55020

Immunity from radio interference of broadcast receivers and associated equipment

EN 50091-2

EMC requirements for uninterruptible power systems (UPS)

EN 55022

Limits and methods of measurement of radio disturbance characteristics of information technology equipment

EN 55014-2

Immunity measurements for household appliances tools and similar apparatus

EN 55019

EN 55019-1
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EN 55019-100

EN 55019-1

General and safety requirements for uninterruptible power systems (UPS)

EN 60956

Safety requirements for mains operated electronic and related apparatus for household and similar general use

EN 60950

Safety for information technology equipment including electrical business equipment

EN 60335

Safety of household and similar electrical appliances

EN 50014-1

Generic and safety requirements for uninterruptible power systems (UPS)



(EC conformity marking)

The manufacturer also declares the conformity of above mentioned product with the actual required safety standards in accordance with LVD 73/23 EEC

Safety requirements for mains operated electronic and related apparatus for household and similar general use

Safety of household and similar electrical appliances

Manufacturer/Importer

Signature: Shanyu Huang

Name: Timmy Huang

Date: Oct. 7, 2004

(Stamp)

DECLARATION OF CONFORMITY

Per FCC Part 2 Section 2.1077(a)



Responsible Party Name: G.B.T. INC. (U.S.A.)

Address: 17358 Railroad Street

City of Industry, CA 91748

Phone/Fax No: (818) 854-9338/ (818) 854-9339

hereby declares that the product

Product Name: **Motherboard**

Model Number: **7VM400AM-RZ**

conforms to the following specifications:

FCC Part 15, Subpart B, Section 15.107(a) and Section 15.109

(a), Class B Digital Device

Supplementary Information:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful and (2) this device must accept any interference received, including that may cause undesired operation.

Representative Person's Name: ERIC LU

Signature: Eric Lu

Date: Oct. 7, 2004

Preparing Your Computer

Computer motherboards and expansion cards contain very delicate Integrated Circuit (IC) chips. To protect them against damage from static electricity, you should follow some precautions whenever you work on your computer.

1. Unplug your computer when working on the inside.
2. Use a grounded wrist strap before handling computer components. If you do not have one, touch both of your hands to a safely grounded object or to a metal object, such as the power supply case.
3. Hold components by the edges and try not touch the IC chips, leads or connectors, or other components.
4. Place components on a grounded antistatic pad or on the bag that came with the components whenever the components are separated from the system.
5. Ensure that the ATX power supply is switched off before you plug in or remove the ATX power connector on the motherboard.



Installing the motherboard to the chassis

If the motherboard has mounting holes, but they don't line up with the holes on the base and there are no slots to attach the spacers, do not become alarmed you can still attach the spacers to the mounting holes. Just cut the bottom portion of the spacers (the spacer may be a little hard to cut off, so be careful of your hands). In this way you can still attach the motherboard to the base without worrying about short circuits. Sometimes you may need to use the plastic springs to isolate the screw from the motherboard PCB surface, because the circuit wire may be near by the hole. Be careful, don't let the screw contact any printed circuit write or parts on the PCB that are near the fixing hole, otherwise it may damage the board or cause board malfunctioning.

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Chapter 1 Introduction

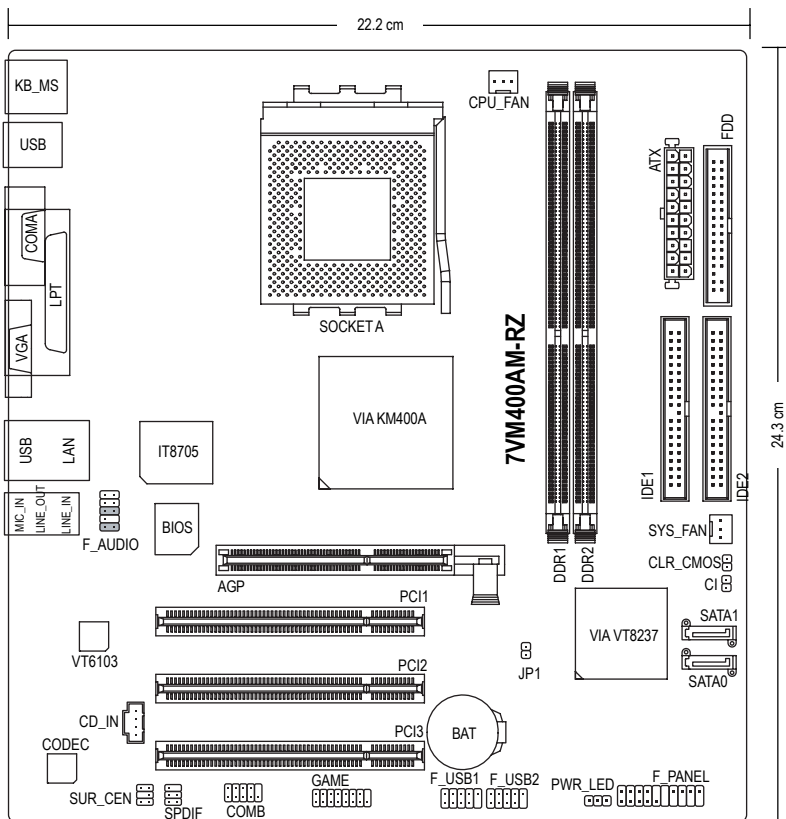
Features Summary

CPU	<ul style="list-style-type: none"> • Socket A for AMD Athlon™ XP / Athlon™ / Duron™ processor • 200/266/333/400MHz FSB • Supports 1.4GHz and faster
Chipset	<ul style="list-style-type: none"> • Northbridge : VIA KM400A • Southbridge : VIA 8237
Memory	<ul style="list-style-type: none"> • 2 184-pin DDR DIMM sockets, supports up to 2GB DRAM (Max) • Supports DDR400/DDR333 DIMM • Supports only 2.5V DDR SDRAM
Slots	<ul style="list-style-type: none"> • 1 AGP slot supports 8X/4X(1.5V) mode • 3 PCI slots support 33MHz & PCI 2.2 compliant
On-Board IDE	<ul style="list-style-type: none"> • 2 IDE controller provide IDE HDD/CD-ROM(IDE1, IDE2) with PIO, Bus Master (Ultra DMA33/ATA66/ATA100/ATA133) operation modes • Can connect up to 4 IDE devices
On-Board Floppy	<ul style="list-style-type: none"> • 1 Floppy port supports 2 FDD with 360K, 720K, 1.2M, 1.44M and 2.88M bytes
On-Board Serial ATA	<ul style="list-style-type: none"> • 2 Serial ATA connectors ^(Note1)
On-Board Peripherals	<ul style="list-style-type: none"> • 1 Parallel port supports Normal/EPP/ECP mode • 1 Serial port (COMA), 1 VGA port, COMB on-board • 8 USB 2.0/1.1 ports (4 x Rear, 4 x Front by cable) • 1 Front Audio connector • 1 PS/2 Keyboard • 1 PS/2 Mouse
On-Board VGA	<ul style="list-style-type: none"> • Built-in VIA KM400A
On-Board LAN	<ul style="list-style-type: none"> • Built-in VIA VT6103 chipset • 1 RJ45 port
On-Board Sound	<ul style="list-style-type: none"> • VIA VT1617 • Supports 2/4/6-channel • Line Out / Line In / Mic In • SPDIF Out • CD In / Game connector
On-Board SATA RAID	<ul style="list-style-type: none"> • Built in VT8237 • Supports Disk striping (RAID0) or DISK Mirroring (RAID1) • Supports UDMA up to 150 MB/sec • Up to 2 SATA Device

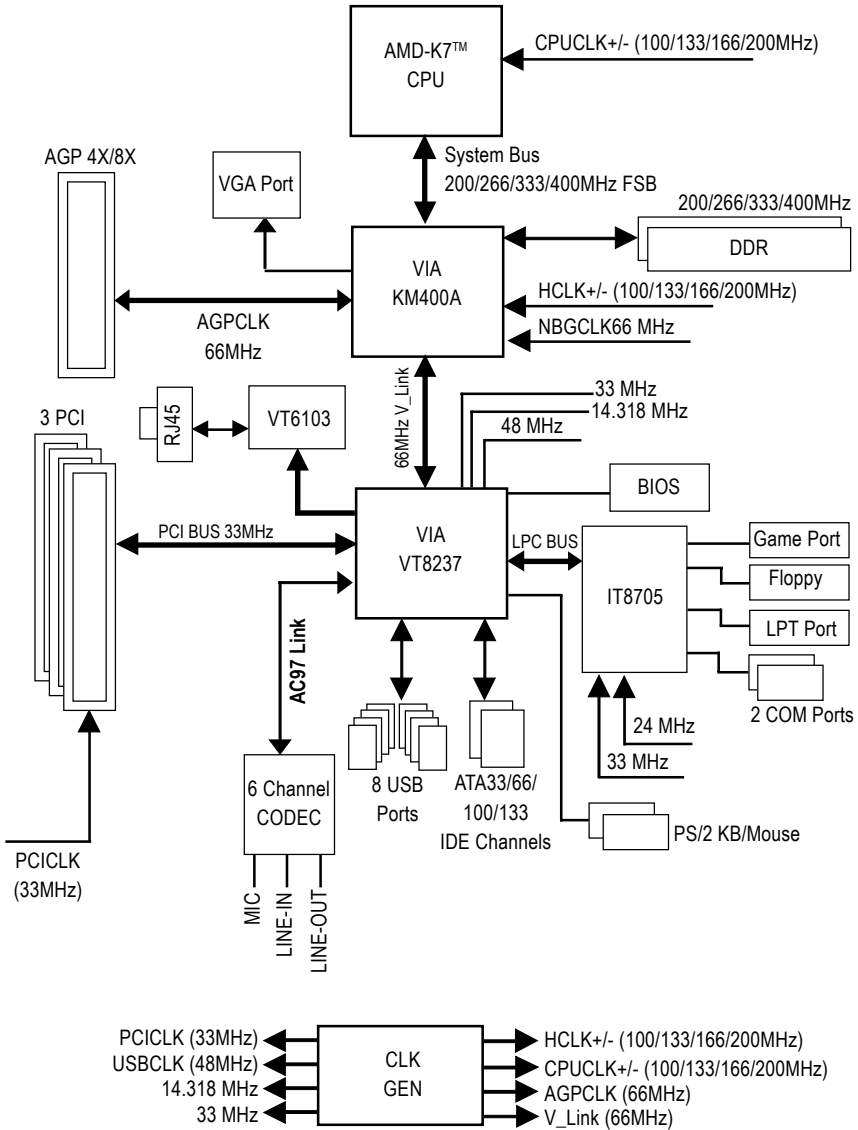
(Note 1) It is recommended to use SATA (1.5Gb/s) hard disks.

BIOS	<ul style="list-style-type: none">• Licensed AWARD BIOS• Supports Q-Flash™
I/O Control	<ul style="list-style-type: none">• ITE8705
Hardware Monitor	<ul style="list-style-type: none">• CPU/System fan revolution detect• CPU/System temperature detect• System voltage detect• CPU/System fan fail warning
Additional Features	<ul style="list-style-type: none">• Supports @BIOS™• Supports EasyTune 4™
Overclocking	<ul style="list-style-type: none">• Over clock (CPU/DDR) by BIOS• Over voltage (DDR/AGP) br BIOS
Form Factor	<ul style="list-style-type: none">• Micro ATX size form factor, 24.3cm x 22.2cm

7VM400AM-RZ Motherboard Layout



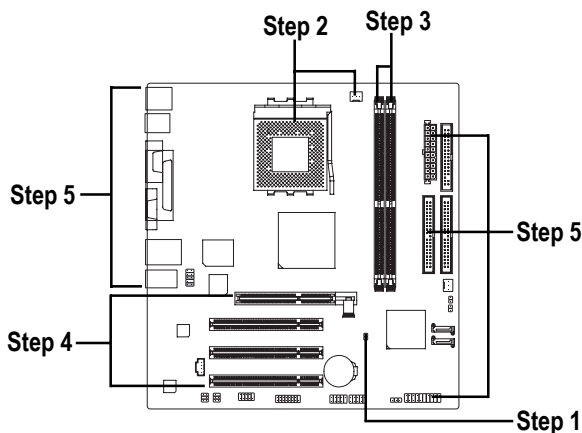
Block Diagram



Hardware Installation Process

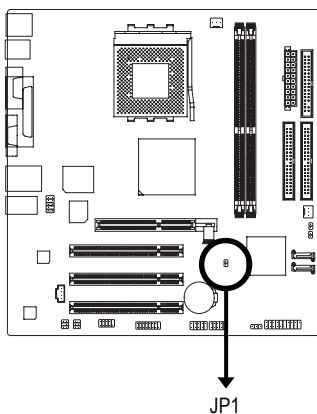
To set up your computer, you must complete the following steps:


- Step 1- Set System Jumper (JP1)
- Step 2- Install the Central Processing Unit (CPU)
- Step 3- Install Memory Modules
- Step 4- Install Expansion Cards
- Step 5- Install I/O Peripherals Cables




Step 1: Set System Jumper (JP1)

The system bus frequency can be switched at 100/133/166/200MHz by adjusting system jumper (JP1).
(The internal frequency depend on CPU.)



 Short: 100MHz
1

 Open: 133/166/200MHz
1

100MHz : Fix FSB 200MHz CPU

133/166MHz : Supports FSB 266/333MHz CPU



CAUTION

If you want to use a CPU with 200MHz FSB, please set JP1 to 100MHz.

Step 2: Install the Central Processing Unit (CPU)



Before installing the processor, adhere to the following warning:

1. Please make sure the CPU type is supported by the motherboard.
2. The processor will overheat without the heatsink and/or fan, resulting in permanent irreparable damage.
3. If you do not match the CPU socket Pin 1 and CPU cut edge well, it will cause improper installation. Please change the insert orientation.
4. Apply thermal grease between the processor and cooling fan.
5. Never run the processor without the heatsink properly and firmly attached. Permanent damage will result.
6. Please set the CPU host frequency in accordance with your processor's specifications.

We don't recommend you to set the system bus frequency over the CPU's specification because these specific bus frequencies are not the standard specifications for CPU, chipset and most of the peripherals. Whether your system can run under these specific bus frequencies properly will depend on your hardware configurations, including CPU, Memory, Cards...etc.

Step 2-1: CPU Installation

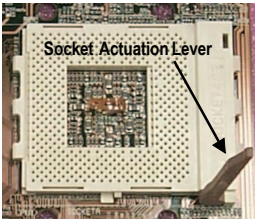


Figure 1.

Pull the rod to the 90-degree directly.

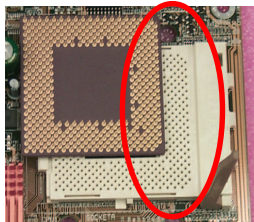


Figure 2.

Locate Pin 1 in the socket and look for a cut edge on the CPU upper corner. Insert the CPU into the socket. (Do not force the CPU into the socket.) Then move the socket lever to the locked position while holding pressure on the center of the CPU.

Step 2-2: CPU Cooling Fan Installation

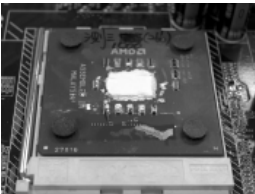


Figure 1.

Apply the thermal tape(or grease) to provide better heat conduction between your CPU and cooling fan.

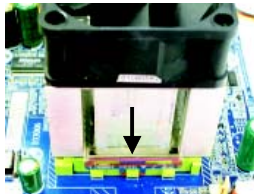


Figure 2.

Fasten the cooling fan supporting-base onto the CPU socket on the motherboard.

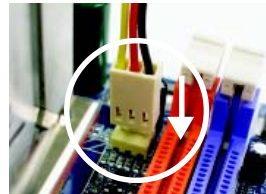


Figure 3.

Make sure the CPU fan is plugged to the CPU fan connector, than the install completely.

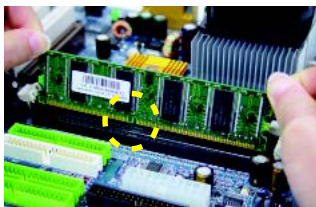
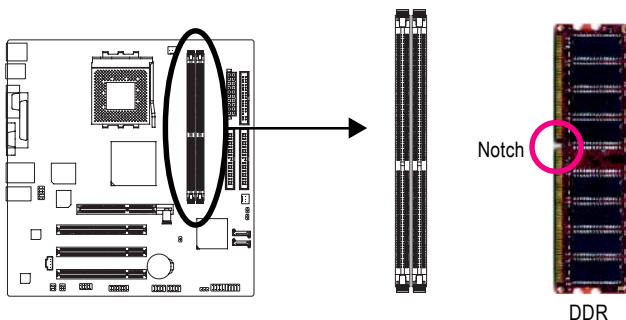
Step 3: Install Memory Modules



Before installing the memory modules, adhere to the following warning:

1. Please note that the DIMM module can only fit in one direction due to the one notch. Wrong orientation will cause improper installation. Please change the insert orientation.

The motherboard has 2 dual inline memory module (DIMM) sockets. The BIOS will automatically detects memory type and size. To install the memory module, just push it vertically into the DIMM socket. The DIMM module can only fit in one direction due to the notch. Memory size can vary between sockets.



1. The DIMM socket has a notch, so the DIMM memory module can only fit in one direction.



2. Insert the DIMM memory module vertically into the DIMM socket. Then push it down.



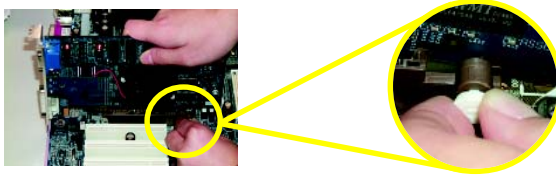
3. Close the plastic clip at both edges of the DIMM sockets to lock the DIMM module. Reverse the installation steps when you wish to remove the DIMM module.

Step 4: Install AGP Card

1. Read the relate AGP card's instruction document before install the AGP card into the computer.
2. If your AGP card has "AGP 4X/8X(1.5V) notch"(show below), please make sure your AGP card is AGP 4X/8X(1.5V).

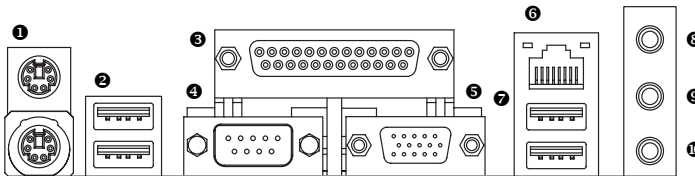


3. Please carefully pull out the small white-drawable bar at the end of the AGP slot when you try to install/uninstall the AGP card. Please align the AGP card to the onboard AGP slot and press firmly down on the slot. Make sure your AGP card is locked by the small white-drawable bar.



Step 5: Install I/O Peripherals Cables

Step 5-1: I/O Back Panel Introduction



❶ PS/2 Keyboard and PS/2 Mouse connector

This connector supports standard PS/2 keyboard and PS/2 mouse.

❷/❸ USB port

Before you connect your device(s) into USB connector(s), please make sure your device(s) such as USB keyboard, mouse, scanner, zip, speaker...etc. Have a standard USB interface. Also make sure your OS supports USB controller. If your OS does not support USB controller, please contact OS vendor for possible patch or driver upgrade. For more information please contact your OS or device(s) vendors.

❹ Parallel port (LPT)

Device like printer can be connected to Parallel port.

❺ Serial port (COMA)

Mouse and modem etc. can be connected to Serial port.

❻ VGA port

Monitor can be connected to VGA port.

❼ LAN port

LAN is fast Ethernet with 10/100Mbps speed.

❽ Line In jack

Devices like CD-ROM, walkman etc. can be connected to Line In jack.

⑨ **Line Out jack**

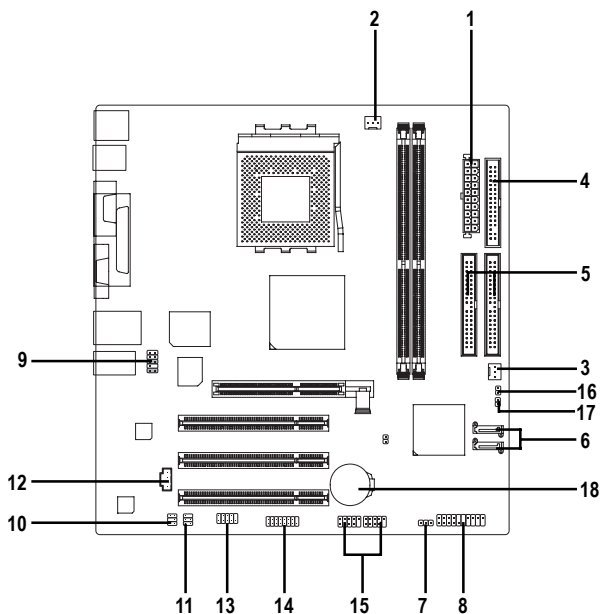
Connect the stereo speakers or earphone to this connector.

⑩ **MIC In jack**

Microphone can be connect to MIC In jack.

After installation of the audio driver, you are able to use 2/4/6-channel audio feature by software selection. You can connect "Front speaker" to "Line Out" jack, Connect "Rear speaker" to "Line In" jack and connect "Center/Subwoofer" to "MIC In" jack.

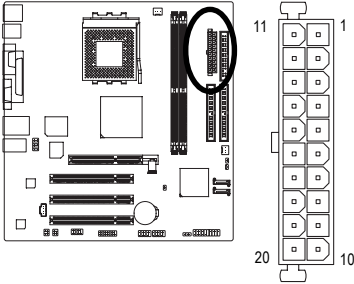
Step 5-2: Connectors Introduction



1) ATX	10) SUR_CEN
2) CPU_FAN	11) SPDIF
3) SYS_FAN	12) CD_IN
4) FDD	13) COMB
5) IDE1 / IDE2	14) GAME
6) SATA0/SAT1	15) F_USB1 / F_USB2
7) PWR_LED	16) CLR_CMOS
8) F_PANEL	17) CI
9) F_AUDIO	18) BAT

1) ATX (ATX Power)

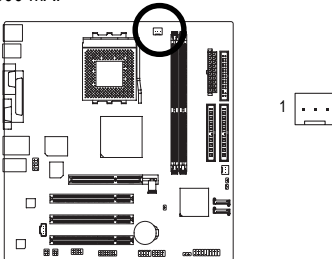
AC power cord should only be connected to your power supply unit after ATX power cable and other related devices are firmly connected to the mainboard.



Pin No.	Definition	Pin No.	Definition
1	3.3V	11	3.3V
2	3.3V	12	-12V
3	GND	13	GND
4	VCC	14	PS_ON(soft on/off)
5	GND	15	GND
6	VCC	16	GND
7	GND	17	GND
8	Power Good	18	-5V
9	5v SB (stand by +5V)	19	VCC
10	+12V	20	VCC

2) CPU_FAN (CPU Fan Connector)

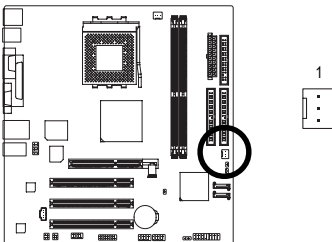
Please note, a proper installation of the CPU cooler is essential to prevent the CPU from running under abnormal condition or damaged by overheating. The CPU fan connector supports Max. current up to 600 mA.



Pin No.	Definition
1	GND
2	+12V
3	Sense

3) SYS_FAN (System Fan Connector)

This connector allows you to link with the cooling fan on the system case to lower the system temperature.

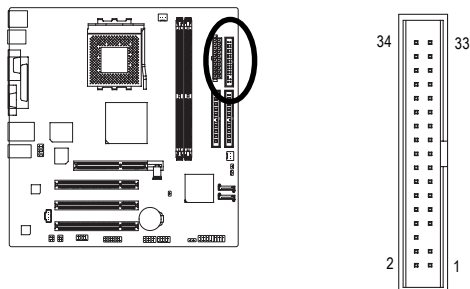


Pin No.	Definition
1	GND
2	+12V
3	Sense

4) FDD (Floppy Connector)

Please connect the floppy drive ribbon cables to FDD. It supports 360K, 1.2M, 720K, 1.44M and 2.88M bytes floppy disk types.

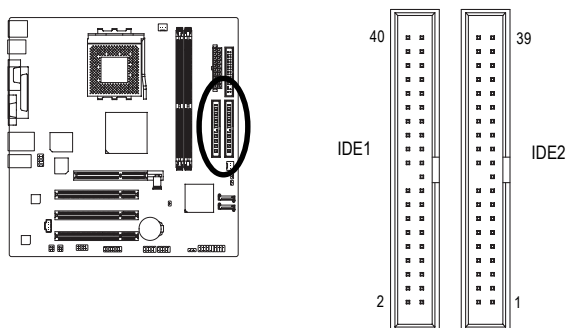
The red stripe of the ribbon cable must be the same side with the Pin1.



5) IDE1 / IDE2 (IDE1 / IDE2 Connector)

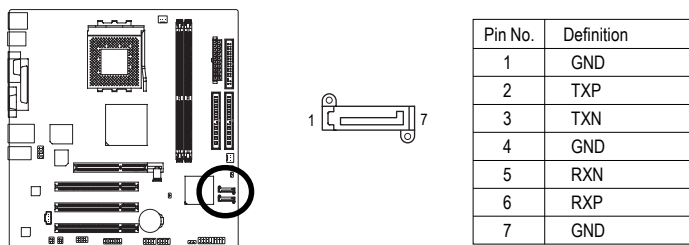
Please connect first hard disk to IDE1 and connect CD-ROM to IDE2.

The red stripe of the ribbon cable must be the same side with the Pin1.



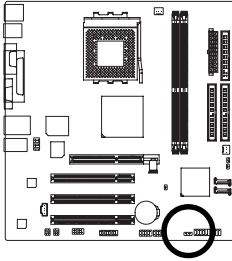
6) SATA0 / SATA1 (Serial ATA Connector)

Serial ATA can provide 150MB/s transfer rate. Please refer to the BIOS setting for the Serial ATA and install the proper driver in order to work properly.



7) PWR_LED

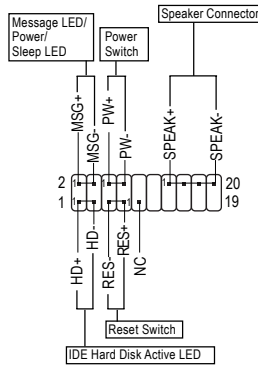
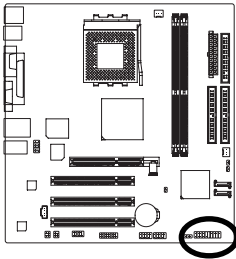
PWR_LED is connect with the system power indicator to indicate whether the system is on/off. It will blink when the system enters suspend mode.



Pin No.	Definition
1	MPD+
2	MPD-
3	MPD-

8) F_PANEL (2 x 10 pins Connector)

Please connect the power LED, PC speaker, reset switch and power switch etc. of your chassis front panel to the F_PANEL connector according to the pin assignment below.

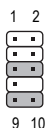
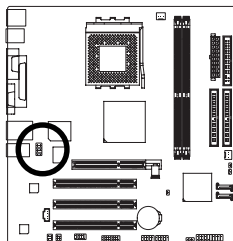


HD (IDE Hard Disk Active LED)	Pin 1: LED anode(+) Pin 2: LED cathode(-)
SPK (Speaker Connector)	Pin 1: VCC(+) Pin 2- Pin 3: NC Pin 4: Data(-)
RES (Reset Switch)	Open: Normal Operation Close: Reset Hardware System
PW (Power Switch)	Open: Normal Operation Close: Power On/Off
MSG (Message LED/ Power/ Sleep LED)	Pin 1: LED anode(+) Pin 2: LED cathode(-)
NC	NC

9) F_AUDIO (Front Audio Connector)

If you want to use Front Audio connector, you must remove 5-6, 9-10 Jumper.

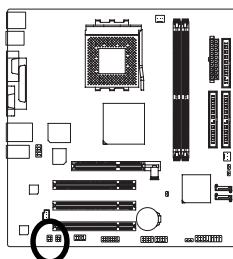
In order to utilize the front audio header, your chassis must have front audio connector. Also please make sure the pin assignment on the cable is the same as the pin assignment on the MB header. To find out if the chassis you are buying support front audio connector, please contact your dealer. Please note, you can have the alternative of using front audio connector or of using rear audio connector to play sound.



Pin No.	Definition
1	MIC
2	GND
3	REF
4	Power
5	Front Audio (R)
6	Rear Audio (R)
7	Reserved
8	No Pin
9	Front Audio (L)
10	Rear Audio (L)

10) SUR_CEN (Surround Center Connector)

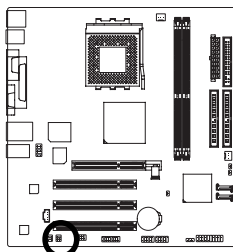
Please contact your nearest dealer for optional SUR_CEN cable.



Pin No.	Definition
1	SUR OUTL
2	SUR OUTR
3	GND
4	No Pin
5	CENTER_OUT
6	BASS_OUT

11) SPDIF (SPDIF Out Connector)

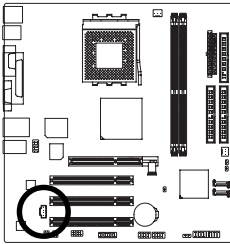
The SPDIF output is capable of providing digital audio to external speakers or compressed AC3 data to an external Dolby Digital Decoder. Use this feature only when your stereo system has digital input function. Be careful with the polarity of the SPDIF connector. Check the pin assignment carefully while you connect the SPDIF cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional SPDIF cable, please contact your local dealer.



Pin No.	Definition
1	VCC
2	No Pin
3	SPDIF
4	NC
5	GND
6	GND

12) CD_IN (CD In Connector)

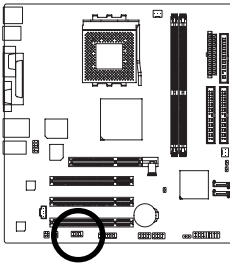
Connect CD-ROM or DVD-ROM audio out to the connector.



Pin No.	Definition
1	CD-L
2	GND
3	GND
4	CD-R

13) COMB (COM B Connector)

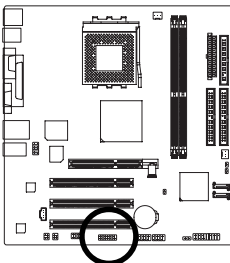
Be careful with the polarity of the COMB connector. Check the pin assignment carefully while you connect the COMB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional COMB cable, please contact your local dealer.



Pin No.	Definition
1	NDCDB-
2	NSINB
3	NSOUTB
4	NDTRB-
5	GND
6	NDSRB-
7	NRTSB-
8	NCTSB-
9	NRIB-
10	No Pin

14) GAME (Game Connector)

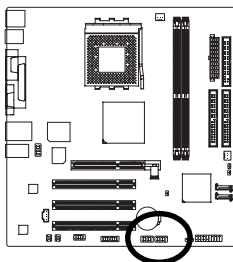
This connector supports joystick, MIDI keyboard and other relate audio devices. Check the pin assignment while you connect the game cables. Please contact your nearest dealer for optional game cables.



Pin No.	Definition	Pin No.	Definition
1	VCC	9	GPSA1
2	GRX1_R	10	GND
3	GND	11	GRY1_R
4	GPSA2	12	VCC
5	VCC	13	GPSB1
6	GRX2_R	14	MSO_R
7	GRY2_R	15	GPSB2
8	MSL_R	16	No Pin

15) F_USB1 / F_USB2 (Front USB Connector)

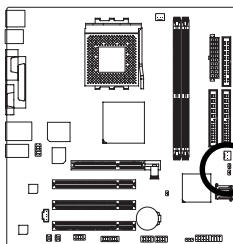
Be careful with the polarity of the front USB connector. Check the pin assignment carefully while you connect the front USB cable, incorrect connection between the cable and connector will make the device unable to work or even damage it. For optional front USB cable, please contact your local dealer.



Pin No.	Definition
1	Power
2	Power
3	USB Dx-
4	USB Dy-
5	USB Dx+
6	USB Dy+
7	GND
8	GND
9	No Pin
10	NC

16) CLR_CMOS (Clear CMOS)

You may clear the CMOS data to its default values by this jumper. To clear CMOS, temporarily short 1-2 pin. Default doesn't include the "Shunter" to prevent from improper use this jumper.



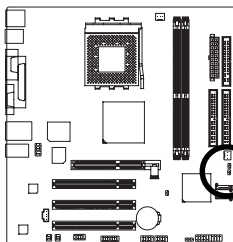
Short: Clear CMOS



Open: Normal

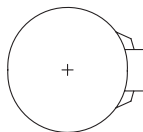
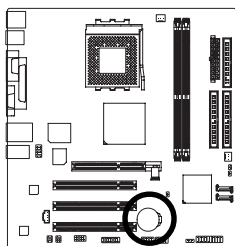
17) CI (Chassis Intrusion, Case Open)

This 2-pin connector allows your system to enable or disable the "case open" item in BIOS if the system case begin remove.



Pin No.	Definition
1	Signal
2	GND

18) BAT (Battery)



CAUTION

- ❖ Danger of explosion if battery is incorrectly replaced.
- ❖ Replace only with the same or equivalent type recommended by the manufacturer.
- ❖ Dispose of used batteries according to the manufacturer's instructions.

If you want to erase CMOS...

1. Turn OFF the computer and unplug the power cord.
2. Remove the battery, wait for 30 second.
3. Re-install the battery.
4. Plug the power cord and turn ON the computer.

Chapter 2 BIOS Setup

BIOS Setup is an overview of the BIOS Setup Program. The program that allows users to modify the basic system configuration. This type of information is stored in battery-backed CMOS RAM so that it retains the Setup information when the power is turned off.

ENTERING SETUP

Powering ON the computer and pressing immediately will allow you to enter Setup. If you require more advanced BIOS settings, please go to "Advanced BIOS" setting menu. To enter Advanced BIOS setting menu, press "Ctrl+F1" key on the BIOS screen.

CONTROL KEYS

<↑><↓><←><→>	Move to select item
<Enter>	Select Item
<Esc>	Main Menu - Quit and not save changes into CMOS Status Page Setup Menu and Option Page Setup Menu - Exit current page and return to Main Menu
<+/PgUp>	Increase the numeric value or make changes
<-/PgDn>	Decrease the numeric value or make changes
<F1>	General help, only for Status Page Setup Menu and Option Page Setup Menu
<F2>	Item Help
<F5>	Restore the previous CMOS value from CMOS, only for Option Page Setup Menu
<F6>	Load the file-safe default CMOS value from BIOS default table
<F7>	Load the Optimized Defaults
<F8>	Q-Flash utility
<F9>	System Information
<F10>	Save all the CMOS changes, only for Main Menu

Main Menu

The on-line description of the highlighted setup function is displayed at the bottom of the screen.

Status Page Setup Menu / Option Page Setup Menu

Press F1 to pop up a small help window that describes the appropriate keys to use and the possible selections for the highlighted item. To exit the Help Window press <Esc>.

The Main Menu (For example: BIOS Ver. : F1)

Once you enter Award BIOS CMOS Setup Utility, the Main Menu (as figure below) will appear on the screen. The Main Menu allows you to select from eight setup functions and two exit choices. Use arrow keys to select among the items and press <Enter> to accept or enter the sub-menu.

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<ul style="list-style-type: none"> ▶ Standard CMOS Features ▶ Advanced BIOS Features ▶ Integrated Peripherals ▶ Power Management Setup ▶ PnP/PCI Configurations ▶ PC Health Status ▶ Frequency/Voltage Control 	<ul style="list-style-type: none"> Load Fail-Safe Defaults Load Optimized Defaults Set Supervisor Password Set User Password Save & Exit Setup Exit Without Saving
ESC: Quit	↑↓→←: Select Item
F8: Q-Flash	F10: Save & Exit Setup
Time, Date, Hard Disk Type...	



If you can't find the setting you want, please press "Ctrl+F1" to search the advanced option hidden.

- **Standard CMOS Features**
This setup page includes all the items in standard compatible BIOS.
- **Advanced BIOS Features**
This setup page includes all the items of Award special enhanced features.
- **Integrated Peripherals**
This setup page includes all onboard peripherals.
- **Power Management Setup**
This setup page includes all the items of Green function features.
- **PnP/PCI Configuration**
This setup page includes all the configurations of PCI & PnP ISA resources.
- **PC Health Status**
This setup page is the System auto detect Temperature, voltage, fan, speed.
- **Frequency/Voltage Control**
This setup page is control CPU clock and frequency ratio.
- **Load Fail-Safe Defaults**
Fail-Safe Defaults indicates the value of the system parameters which the system would be in safe configuration.
- **Load Optimized Defaults**
Optimized Defaults indicates the value of the system parameters which the system would be in best performance configuration.
- **Set Supervisor Password**
Change, set, or disable password. It allows you to limit access to the system and Setup, or just to Setup.
- **Set User Password**
Change, set, or disable password. It allows you to limit access to the system.
- **Save & Exit Setup**
Save CMOS value settings to CMOS and exit setup.
- **Exit Without Saving**
Abandon all CMOS value changes and exit setup.

Standard CMOS Features

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Standard CMOS Features

Date (mm:dd:yy)	wed, Sep 1 2004	Item Help
Time (hh:mm:ss)	22:31:24	Menu Level▶ Change the day, month, year
▶ IDE Channel 0 Master	[None]	<Week> Sun. to Sat.
▶ IDE Channel 0 Slave	[None]	<Month> Jan. to Dec.
▶ IDE Channel 1 Master	[None]	<Day> 1 to 31 (or maximum allowed in the month)
▶ IDE Channel 1 Slave	[None]	<Year> 1999 to 2098
▶ IDE Channel 2 Master	[None]	
▶ IDE Channel 3 Master	[None]	
Drive A	[1.44M, 3.5"]	
Drive B	[None]	
Floppy 3 Mode Support	[Disabled]	
Halt On	[All, But Keyboard]	
Base Memory	640K	
Extended Memory	127M	
Total Memory	128M	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Default F7: Optimized Defaults		

☛ Date

The date format is <week>, <month>, <day>, <year>.

- ▶▶ Week The week, from Sun to Sat, determined by the BIOS and is display only
- ▶▶ Month The month, Jan. Through Dec.
- ▶▶ Day The day, from 1 to 31 (or the maximum allowed in the month)
- ▶▶ Year The year, from 1999 through 2098

☛ Time

The times format in <hour> <minute> <second>. The time is calculated base on the 24-hour military-time clock. For example, 1 p.m. is 13:00:00.

☛ IDE Channel 0/1 Master, Slave / IDE Channel 2/3 Master

- ▶▶ IDE HDD Auto-Detection Press "Enter" to select this option for automatic device detection.
- ▶▶ IDE Channel 0 Master(Slave) IDE Device Setup. You can use one of three methods:
 - Auto Allows BIOS to automatically detect IDE devices during POST(default)
 - None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.
 - Manual User can manually input the correct settings
- ▶▶ IDE Channel 2/3 Master IDE Device Setup. You can use one of two methods:
 - Auto Allows BIOS to automatically detect IDE devices during POST(default)
 - None Select this if no IDE devices are used and the system will skip the automatic detection step and allow for faster system start up.
- ▶▶ Access Mode Use this to set the access mode for the hard drive. The four options are: CHS/LBA/Large/Auto(default:Auto)

Hard drive information should be labeled on the outside drive casing. Enter the appropriate option based on this information.

- ▶▶ Cylinder Number of cylinders
- ▶▶ Head Number of heads

- » Precomp Write precomp
- » Landing Zone Landing zone
- » Sector Number of sectors

If a hard disk has not been installed, select NONE and press <Enter>.

☛ Drive A / Drive B

The category identifies the types of floppy disk drive A or drive B that has been installed in the computer.

- » None No floppy drive installed
- » 360K, 5.25" 5.25 inch PC-type standard drive; 360K byte capacity.
- » 1.2M, 5.25" 5.25 inch AT-type high-density drive; 1.2M byte capacity (3.5 inch when 3 Mode is Enabled).
- » 720K, 3.5" 3.5 inch double-sided drive; 720K byte capacity
- » 1.44M, 3.5" 3.5 inch double-sided drive; 1.44M byte capacity.
- » 2.88M, 3.5" 3.5 inch double-sided drive; 2.88M byte capacity.

☛ Floppy 3 Mode Support (for Japan Area)

- » Disabled Normal Floppy Drive. (Default value)
- » Drive A Drive A is 3 mode Floppy Drive.
- » Drive B Drive B is 3 mode Floppy Drive.
- » Both Drive A & B are 3 mode Floppy Drives.

☛ Halt on

The category determines whether the computer will stop if an error is detected during power up.

- » No Errors The system boot will not stop for any error that may be detected and you will be prompted.
- » All Errors Whenever the BIOS detects a non-fatal error the system will be stopped.
- » All, But Keyboard The system boot will not stop for a keyboard error; it will stop for all other errors. (Default value)
- » All, But Diskette The system boot will not stop for a disk error; it will stop for all other errors.
- » All, But Disk/Key The system boot will not stop for a keyboard or disk error; it will stop for all other errors.

☛ Memory

The category is display-only which is determined by POST (Power On Self Test) of the BIOS.

» Base Memory

The POST of the BIOS will determine the amount of base (or conventional) memory installed in the system.

The value of the base memory is typically 512K for systems with 512K memory installed on the motherboard, or 640K for systems with 640K or more memory installed on the motherboard.

» Extended Memory

The BIOS determines how much extended memory is present during the POST.

This is the amount of memory located above 1 MB in the CPU's memory address map.

Advanced BIOS Features

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Advanced BIOS Features

▶ Hard Disk Boot Priority	[Press Enter]	Item Help
First Boot Device	[Floppy]	Menu Level ▶
Second Boot Device	[Hard Disk]	Select Hard Disk Boot
Third Boot Device	[CDROM]	Device Priority
Password Check	[Setup]	
↑↓→←: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Default F7: Optimized Defaults		

▶ Hard Disk Boot Priority

Select boot sequence for onboard(or add-on cards) SCSI, RAID, etc.

Use <↑> or <↓> to select a device, then press<+> to move it up, or <-> to move it down the list.
Press <ESC> to exit this menu.

▶ First / Second / Third Boot Device

- ▶ Floppy Select your boot device priority by Floppy.
- ▶ LS120 Select your boot device priority by LS120.
- ▶ Hard Disk Select your boot device priority by Hard Disk.
- ▶ CDROM Select your boot device priority by CDROM.
- ▶ ZIP Select your boot device priority by ZIP.
- ▶ USB-FDD Select your boot device priority by USB-FDD.
- ▶ USB-ZIP Select your boot device priority by USB-ZIP.
- ▶ USB-CDROM Select your boot device priority by USB-CDROM.
- ▶ USB-HDD Select your boot device priority by USB-HDD.
- ▶ Legacy LAN Select your boot device priority by Legacy LAN.
- ▶ Disabled Select your boot device priority by Disabled.

▶ Password Check

- ▶ System The system can not boot and can not access to Setup page will be denied if the correct password is not entered at the prompt.
- ▶ Setup The system will boot, but access to Setup will be denied if the correct password is not entered at the prompt. (Default value)

Integrated Peripherals

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Integrated Peripherals

		Item Help
OnChip IDE Channel 0	[Enabled]	
OnChip IDE Channel 1	[Enabled]	
OnChip Serial ATA	[Enabled]	
SATA Mode	[RAID]	If a hard disk controller card is used, set at Disabled
AC'97 Audio	[Auto]	
VIA Onboard LAN	[Enabled]	
USB 1.1 Controller	[Enabled]	
USB 2.0 Controller	[Enabled]	
USB Keyboard Support	[Disabled]	[Enabled] Enable onboard IDE channel
USB Mouse Support	[Disabled]	
Onboard Serial Port 1	[3F8/IR04]	
Onboard Serial Port 2	[2F8/IR03]	
Onboard Parallel Port	[378/IR07]	[Disabled] Disable onboard IDE channel
Parallel Port Mode	[SPP]	
Game Port Address	[201]	
Midi Port Address	[Disabled]	
x Midi Port IRQ	10	

↑↓←→: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help
 F5: Previous Values F6: Fail-Safe Default F7: Optimized Defaults

OnChip IDE Channel 0

When set at "Enabled", it allows you to use the onboard primary PCI IDE. If a hard disk controller card is used, please set at "Disabled".

- ▶ Enabled Enable onboard 1st channel IDE port. (Default v alue)
- ▶ Disabled Disable onboard 1st channel IDE port.

OnChip IDE Channel 1

When set at "Enabled", it allows you to use the onboard secondary PCI IDE. If a hard disk controller card is used, please set at "Disabled".

- ▶ Enabled Enable onboard 2nd channel IDE port. (Default v alue)
- ▶ Disabled Disable onboard 2nd channel IDE port.

OnChip Serial ATA

- ▶ Enabled Enable onboard VT8237 Serial ATA support. (Default v alue)
- ▶ Disabled Disabled VT8237 Serial ATA support.

SATA Mode

- ▶ RAID Select SATA chip function as RAID. (Default v alue)
- ▶ IDE Select SATA chip function as IDE.

AC'97 Audio

- ▶ Auto Enable onboard AC'97 audio function. (Default v alue)
- ▶ Disabled Disable this function.

VIA Onboard LAN

- ▶ Enabled Enable onboard LAN function. (Default v alue)
- ▶ Disabled Disable this function.

USB 1.1 Controller

Disable this function if you are not using the onboard USB feature.

- ▶ Enabled Enable USB 1.1 controller. (Default v alue)
- ▶ Disabled Disable USB 1.1 controller.

USB 2.0 Controller

Disable this function if you are not using the onboard USB feature.

- ▶ Enabled Enable USB 2.0 controller. (Default v alue)
- ▶ Disabled Disable USB 2.0 controller.

USB Keyboard Support

- ▶ Enabled Enable USB key board support.
- ▶ Disabled Disable USB keyboard support. (Default v alue)

USB Mouse Support

- ▶ Enabled Enable USB mouse support.
- ▶ Disabled Disable USB mouse support. (Default v alue)

Onboard Serial Port 1

- ▶ Auto BIOS will automatically setup the port 1 address.
- ▶ 3F8/IRQ4 Enable onboard Serial port 1 and address is 3F8. (Default v alue)
- ▶ 2F8/IRQ3 Enable onboard Serial port 1 and address is 2F8.
- ▶ 3E8/IRQ4 Enable onboard Serial port 1 and address is 3E8.
- ▶ 2E8/IRQ3 Enable onboard Serial port 1 and address is 2E8.
- ▶ Disabled Disable onboard Serial port 1.

Onboard Serial Port 2

- ▶ Auto BIOS will automatically setup the port 2 address.
- ▶ 3F8/IRQ4 Enable onboard Serial port 2 and address is 3F8.
- ▶ 2F8/IRQ3 Enable onboard Serial port 2 and address is 2F8. (Default v alue)
- ▶ 3E8/IRQ4 Enable onboard Serial port 2 and address is 3E8.
- ▶ 2E8/IRQ3 Enable onboard Serial port 2 and address is 2E8.
- ▶ Disabled Disable onboard Serial port 2.

Onboard Parallel port

This feature allows you to select from a given set of parameters if the parallel port uses the onboard I/O controller.

- ▶ 378/IRQ7 Enable onboard LPT port and address is 378/IRQ7. (Default v alue)
- ▶ 278/IRQ5 Enable onboard LPT port and address is 278/IRQ5.
- ▶ Disabled Disable onboard LPT port.
- ▶ 3BC/IRQ7 Enable onboard LPT port and address is 3BC/IRQ7.

Parallel Port Mode

- ▶ SPP Using Parallel port as Standard Parallel Port. (Default v alue)
- ▶ EPP Using Parallel port as Enhanced Parallel Port.
- ▶ ECP Using Parallel port as Extended Capabilities Port.
- ▶ ECP+EPP Using Parallel port as ECP & EPP mode.

Game Port Address

- ▶ 201 Set Game Port Address to 201. (Default v alue)
- ▶ 209 Set Game Port Address to 209.
- ▶ Disabled Disable this function.

Midi Port Address

- ▶ 300 Set Midi Port Address to 300.
- ▶ 330 Set Midi Port Address to 330.
- ▶ Disabled Disable this function. (Default v alue)

Midi Port IRQ

- ▶ 5 Set Midi Port IRQ to 5.
- ▶ 10 Set Midi Port IRQ to 10. (Default v alue)

Power Management Setup

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Power Management Setup

ACPI Suspend Type	[S1(POS)]	Item Help
x USB Device Wake-Up from S3	[Disabled]	Menu Level ▶
Power LED in S1 state	[Blinking]	[S1]
Soft-Off by PWRBTN	[Instant-Off]	Set suspend type to
AC Back Function	[Soft-Off]	Power On Suspend under
Keyboard Power On	[Disabled]	ACPI OS
Mouse Power On	[Disabled]	
PME Event Wake Up	[Enabled]	[S3]
ModemRingOn/WakeOnLan	[Enabled]	Set suspend type to
Resume by Alarm	[Disabled]	Suspend to RAM under
x Date (of Month) Alarm	Everyday	ACPI OS
x Time (hh:mm:ss) Alarm	0 : 0 : 0	
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Default F7: Optimized Defaults		

ACPI Suspend Type

- ▶ S1(POS) Set ACPI suspend type to S1. (Default value)
- ▶ S3(STR) Set ACPI suspend type to S3.

USB Device Wake-Up From S3

This function will available when "ACPI Suspend Type" set at "S3/STR".

- ▶ Disabled USB device can't wake up system from S3.
- ▶ Enabled USB device can wake up system from S3. (Default value)

Power LED in S1 state

- ▶ Blinking In standby mode(S1), power LED will blink. (Default value)
- ▶ Dual/Off In standby mode(S1):
 - a. If you use single color LED, power LED will turn off.
 - b. If you use dual color LED, power LED will turn to another color.

Soft-off by PWR-BTTN

- ▶ Instant-off Press power button then Power off instantly. (Default value)
- ▶ Delay 4 Sec. Press power button 4 sec to Power off. Enter suspend if button is pressed less than 4 sec.

AC Back Function

- ▶ Soft-Off Always in Off state when AC back to the system. (Default value)
- ▶ Full-On Always power on the system when AC back.
- ▶ Memory System power on depends on the status before AC lost.

Keyboard Power On

- ▶ Disabled Disable this function. (Default value)
- ▶ Password Enter from 1 to 8 characters to set the keyboard power on password.
- ▶ Keyboard 98 If your keyboard has a "POWER Key" button, you can press the key to power on your system.

Mouse Power On

- ▶ Disabled Disabled this function. (Default value)
- ▶ Enabled Power on system by mouse event.

☛ PME Event Wake Up

When set at Enabled, any PCI-PM event can awake the system from a PCI-PM controlled staled. This feature requires an ATX power supply that provides at least 1A on the +5VSB lead.

- ▶ Disabled Disable this function.
- ▶ Enabled Enable PME as wake up event. (Default value)

☛ ModemRingOn/WakeOnLan

An incoming call via modem or an input signal comes from the other client server on the LAN can awake the system from any suspend state.

- ▶ Disabled Disable Modem Ring on function.
- ▶ Enabled Enable Modem Ring on function. (Default value)

☛ Resume by Alarm

You can set "Resume by Alarm" item to enabled and key in Date/time to power on system.

- ▶ Disabled Disable this function. (Default Value)
- ▶ Enabled Enable alarm function to POWER ON system.

If RTC Alarm Lead To Power On is Enabled.

Date (of Month) Alarm : Everyday, 1-31

Time (hh: mm: ss) Alarm : (0-23) : (0-59) : (0-59)

☛ KB Power ON Password

- ▶ Enter Input password (from 1 to 5 characters) and press Enter to set the keyboard power on password.

PnP/PCI Configurations

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PnP/PCI Configurations

PCI 1 IRQ Assignment	[Auto]	Item Help
PCI 2 IRQ Assignment	[Auto]	Menu Level ▶
PCI 3 IRQ Assignment	[Auto]	Device(s) using this INT:
		Display Cntrlr -Bus 1 Dev 0 Func 0
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Default F7: Optimized Defaults		

☛ PCI 1 IRQ Assignment

- ▶ Auto Auto assign IRQ to PCI 1. (Default value)
- ▶ 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 1.

☛ PCI 2 IRQ Assignment

- ▶ Auto Auto assign IRQ to PCI 2. (Default value)
- ▶ 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 2.

☛ PCI 3 IRQ Assignment

- ▶ Auto Auto assign IRQ to PCI 3. (Default value)
- ▶ 3,4,5,7,9,10,11,12,14,15 Set IRQ 3,4,5,7,9,10,11,12,14,15 to PCI 3.

Frequency/Voltage Control

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Frequency/Voltage Control

Auto Detect PCI/DIMM Clk	[Enabled]	Item Help
Spread Spectrum	[Enabled]	Menu Level ▶
CPU Host Clock Control	[Disabled]	
x CPU Clock	100MHz	
DRAM Clock (MHz)	[By SPD]	
AGP OverVoltage Control	[Auto]	
DIMM OverVoltage Control	[Auto]	
↑↓←→: Move Enter: Select +/-/PU/PD: Value F10: Save ESC: Exit F1: General Help F5: Previous Values F6: Fail-Safe Default F7: Optimized Defaults		



Incorrect using these features may cause your system broken. For power End-User use only!

Auto Detect PCI/DIMM Clk

- ▶ Disabled Disable this function.
- ▶ Enabled Auto detect PCI/DIMM clock. (Default value)

Spread Spectrum

- ▶ Disabled Disable this function.
- ▶ Enabled Enable clock spread spectrum. (Default value)

CPU Host Clock Control

Please note that if your system is overlocked and cannot restart, please wait 20secs. for automatic system restart or clear the CMOS setup data and perform a safe restart.

- ▶ Disabled Disable CPU Host Clock Control. (Default value)
- ▶ Enabled Enable CPU Host Clock Control.

CPU Clock

- ▶ 100MHz Set CPU Clock to 100MHz~132MHz.
- ▶ 133MHz Set CPU Clock to 133MHz~165MHz.

DRAM Clock (MHz)

Wrong frequency may make system can't boot, clear CMOS to overcome wrong frequency issue.

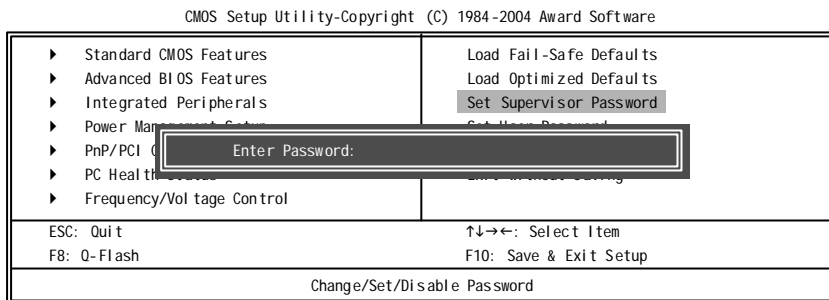
- ▶ By SPD Set memory frequency by DRAM SPD data. (Default value)
- ▶ 133-DDR266 If you use DDR266 DRAM module, please set at "133-DDR266".

AGP OverVoltage Control

Increase AGP voltage may get stable for over-clock. But it may damage to AGP card when enable this feature.

- ▶ Auto Supply voltage as AGP required. (Default value)
- ▶ +0.1V Increase AGP voltage +0.1V.
- ▶ +0.2V Increase AGP voltage +0.2V.
- ▶ +0.3V Increase AGP voltage +0.3V.

Set Supervisor/User Password



When you select this function, the following message will appear at the center of the screen to assist you in creating a password.

Type the password, up to eight characters, and press <Enter>. You will be asked to confirm the password. Type the password again and press <Enter>. You may also press <Esc> to abort the selection and not enter a password.

To disable password, just press <Enter> when you are prompted to enter password. A message "PASSWORD DISABLED" will appear to confirm the password being disabled. Once the password is disabled, the system will boot and you can enter Setup freely.

The BIOS Setup program allows you to specify two separate passwords:

SUPERVISOR PASSWORD and a USER PASSWORD. When disabled, anyone may access all BIOS Setup program function. When enabled, the Supervisor password is required for entering the BIOS Setup program and having full configuration fields, the User password is required to access only basic items.

If you select "System" at "Password Check" in Advance BIOS Features Menu, you will be prompted for the password every time the system is rebooted or any time you try to enter Setup Menu.

If you select "Setup" at "Password Check" in Advance BIOS Features Menu, you will be prompted only when you try to enter Setup.

Chapter 3 Install Drivers


Install Drivers

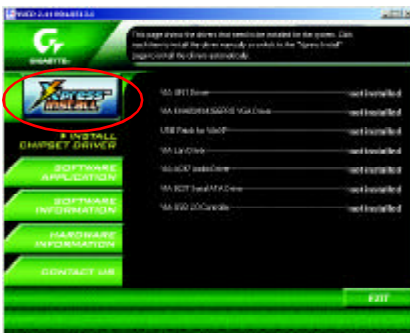



Pictures below are shown in Windows XP

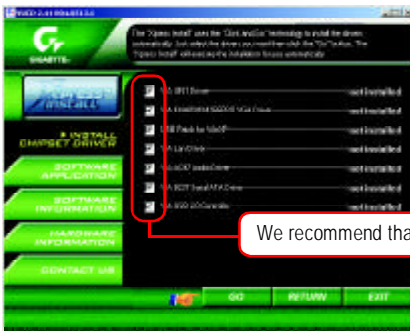
Insert the driver CD-title that came with your motherboard into your CD-ROM drive, the driver CD-title will auto start and show the installation guide. If not, please double click the CD-ROM device icon in "My computer", and execute the setup.exe.

Install Chipset Drivers

This page shows the drivers that need to be installed for the system. Click each item to install the driver manually or switch to the  to install the drivers automatically.

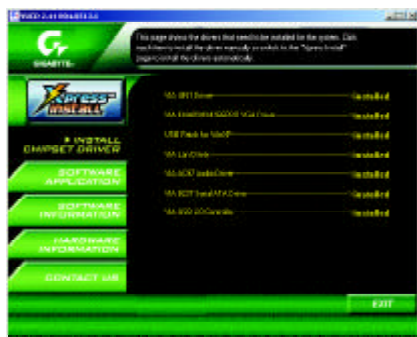


The "Xpress Install" uses the "Click and Go" technology to install the drivers automatically. Just select the drivers you want then click the "GO" button. The  will finish the installation for you automatically.



Message: Some device drivers will restart your system automatically. After restarting your system the "Xpress Install" will continue to install other drivers.

We recommend that you install all components in the list.



Driver install finished !
You have to reboot system !

Item Description

- VIA 4IN1 Driver
For INF, AGP, IDE and DMA driver
- VIA KM400/KM266PRO VGA Driver
For KM400/KM266PRO driver
- USB Patch for WinXP
This patch driver can help you to resolve the USB device wake up S3 hang up issue in XP
- VIA Lan Driver
For VIA Phy family Lan driver
- VIA AC97 Audio Driver
Audio driver for VIA codec chipset
- VIA 8237 Serial ATA Driver
For VIA 8237 SATA Driver
- VIA USB 2.0 Controller
For VIA VT8233 (VT6203) / VIA VT8235 / VIA VT8237 south bridge



For USB2.0 driver support under Windows XP operating system, please use Windows Service Pack. After install Windows Service Pack, it will show a question mark "?" in "Universal Serial Bus controller" under "Device Manager". Please remove the question mark and restart the system (System will auto-detect the right USB2.0 driver).



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